

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/508,343
Source: P4710
Date Processed by STIC: 3/13/05

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PCT

RAW SEQUENCE LISTING

DATE: 03/13/2005

PATENT APPLICATION: US/10/508,343

TIME: 11:58:40

Input Set : A:\US10508343-seq list.txt

Output Set: N:\CRF4\03132005\J508343.raw

3 <110> APPLICANT: Evotec NeuroSciences GmbH
 5 <120> TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC USE OF HUMAN MAGUIN PROTEINS
 6 AND NUCLEIC ACIDS FOR NEURODEGENERATIVE DISEASES
 8 <130> FILE REFERENCE: 020791ep ME/BM
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/508,343
 C--> 11 <141> CURRENT FILING DATE: 2004-09-20
 13 <160> NUMBER OF SEQ ID NOS: 24
 15 <170> SOFTWARE: PatentIn Ver. 2.1
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 1034
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Homo sapiens
 22 <400> SEQUENCE: 1
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 24 1 5 10 15
 26 Val Asp Trp Met Lys Gly Leu Asp Asp Cys Leu Gln Gln Tyr Ile Lys
 27 20 25 30
 29 Asn Phe Glu Arg Glu Lys Ile Ser Gly Asp Gln Leu Leu Arg Ile Thr
 30 35 40 45
 32 His Gln Glu Leu Glu Asp Leu Gly Val Ser Arg Ile Gly His Gln Glu
 33 50 55 60
 35 Leu Ile Leu Glu Ala Val Asp Leu Leu Cys Ala Leu Asn Tyr Gly Leu
 36 65 70 75 80
 38 Glu Thr Glu Asn Leu Lys Thr Leu Ser His Lys Leu Asn Ala Ser Ala
 39 85 90 95
 41 Lys Asn Leu Gln Asn Phe Ile Thr Gly Arg Arg Arg Ser Gly His Tyr
 42 100 105 110
 44 Asp Gly Arg Thr Ser Arg Lys Leu Pro Asn Asp Phe Leu Thr Ser Val
 45 115 120 125
 47 Val Asp Leu Ile Gly Ala Ala Lys Ser Leu Leu Ala Trp Leu Asp Arg
 48 130 135 140
 50 Ser Pro Phe Ala Ala Val Thr Asp Tyr Ser Val Thr Arg Asn Asn Val
 51 145 150 155 160
 53 Ile Gln Leu Cys Leu Glu Leu Thr Thr Ile Val Gln Gln Asp Cys Thr
 54 165 170 175
 56 Val Tyr Glu Thr Glu Asn Lys Ile Leu His Val Cys Lys Thr Leu Ser
 57 180 185 190
 59 Gly Val Cys Asp His Ile Ile Ser Leu Ser Ser Asp Pro Leu Val Ser
 60 195 200 205
 62 Gln Ser Ala His Leu Glu Val Ile Gln Leu Ala Asn Ile Lys Pro Ser
 63 210 215 220
 65 Glu Gly Leu Gly Met Tyr Ile Lys Ser Thr Tyr Asp Gly Leu His Val
 66 225 230 235 240

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68 Ile Thr Gly Thr Thr Glu Asn Ser Pro Ala Asp Arg Cys Lys Lys Ile
69           245           250           255
71 His Ala Gly Asp Glu Val Ile Gln Val Asn His Gln Thr Val Val Gly
72           260           265           270
74 Trp Gln Leu Lys Asn Leu Val Asn Ala Leu Arg Glu Asp Pro Ser Gly
75           275           280           285
77 Val Ile Leu Thr Leu Lys Lys Arg Pro Gln Ser Met Leu Thr Ser Ala
78           290           295           300
80 Pro Ala Leu Leu Lys Asn Met Arg Trp Lys Pro Leu Ala Leu Gln Pro
81 305           310           315           320
83 Leu Ile Pro Arg Ser Pro Thr Ser Ser Val Ala Thr Pro Ser Ser Thr
84           325           330           335
86 Ile Ser Thr Pro Thr Lys Arg Asp Ser Ser Ala Leu Gln Asp Leu Tyr
87           340           345           350
89 Ile Pro Pro Pro Pro Ala Glu Pro Tyr Ile Pro Arg Asp Glu Lys Gly
90           355           360           365
92 Asn Leu Pro Cys Glu Asp Leu Arg Gly His Met Val Gly Lys Pro Val
93           370           375           380
95 His Lys Gly Ser Glu Ser Pro Asn Ser Phe Leu Asp Gln Glu Tyr Arg
96 385           390           395           400
98 Lys Arg Phe Asn Ile Val Glu Glu Asp Thr Val Leu Tyr Cys Tyr Glu
99           405           410           415
101 Tyr Glu Lys Gly Arg Ser Ser Ser Gln Gly Arg Arg Glu Ser Thr Pro
102           420           425           430
104 Thr Tyr Gly Lys Leu Arg Pro Ile Ser Met Pro Val Glu Tyr Asn Trp
105           435           440           445
107 Val Gly Asp Tyr Glu Asp Pro Asn Lys Met Lys Arg Asp Ser Arg Arg
108           450           455           460
110 Glu Asn Ser Leu Leu Arg Tyr Met Ser Asn Glu Lys Ile Ala Gln Glu
111 465           470           475           480
113 Glu Tyr Met Phe Gln Arg Asn Ser Lys Lys Asp Thr Gly Lys Lys Ser
114           485           490           495
116 Lys Lys Lys Gly Asp Lys Ser Asn Ser Pro Thr His Tyr Ser Leu Leu
117           500           505           510
119 Pro Ser Leu Gln Met Asp Ala Leu Arg Gln Asp Ile Met Gly Thr Pro
120           515           520           525
122 Val Pro Glu Thr Thr Leu Tyr His Thr Phe Gln Gln Ser Ser Leu Gln
123           530           535           540
125 His Lys Ser Lys Lys Lys Asn Lys Gly Pro Ile Ala Gly Lys Ser Lys
126 545           550           555           560
128 Arg Arg Ile Ser Cys Lys Asp Leu Gly Arg Gly Asp Cys Glu Gly Trp
129           565           570           575
131 Leu Trp Lys Lys Lys Asp Ala Lys Ser Tyr Phe Ser Gln Lys Trp Lys
132           580           585           590
134 Lys Tyr Trp Phe Val Leu Lys Asp Ala Ser Leu Tyr Trp Tyr Ile Asn
135           595           600           605
137 Glu Glu Asp Glu Lys Ala Glu Gly Phe Ile Ser Leu Pro Glu Phe Lys
138           610           615           620
140 Ile Asp Arg Ala Ser Glu Cys Arg Lys Lys Tyr Ala Phe Lys Ala Cys

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141 625          630          635          640
143 His Pro Lys Ile Lys Ser Phe Tyr Phe Ala Ala Glu His Leu Asp Asp
144          645          650          655
146 Met Asn Arg Trp Leu Asn Arg Ile Asn Met Leu Thr Ala Gly Tyr Ala
147          660          665          670
149 Glu Arg Glu Arg Ile Lys Gln Glu Gln Asp Tyr Trp Ser Glu Ser Asp
150          675          680          685
152 Lys Glu Glu Ala Asp Thr Pro Ser Thr Pro Lys Gln Asp Ser Pro Pro
153          690          695          700
155 Pro Pro Tyr Asp Thr Tyr Pro Arg Pro Pro Ser Met Ser Cys Ala Ser
156 705          710          715          720
158 Pro Tyr Val Glu Ala Lys His Ser Arg Leu Ser Ser Thr Glu Thr Ser
159          725          730          735
161 Gln Ser Gln Ser Ser His Glu Glu Phe Arg Gln Glu Val Thr Gly Ser
162          740          745          750
164 Ser Ala Val Ser Pro Ile Arg Lys Thr Ala Ser Gln Arg Arg Ser Trp
165          755          760          765
167 Gln Asp Leu Ile Glu Thr Pro Leu Thr Ser Ser Gly Leu His Tyr Leu
168          770          775          780
170 Gln Thr Leu Pro Leu Glu Asp Ser Val Phe Ser Asp Ser Ala Ala Ile
171 785          790          795          800
173 Ser Pro Glu His Arg Arg Gln Ser Thr Leu Pro Thr Gln Lys Cys His
174          805          810          815
176 Leu Gln Asp His Tyr Gly Pro Tyr Pro Leu Ala Glu Ser Glu Arg Met
177          820          825          830
179 Gln Val Leu Asn Gly Asn Gly Gly Lys Pro Arg Ser Phe Thr Leu Pro
180          835          840          845
182 Arg Asp Ser Gly Phe Asn His Cys Cys Leu Asn Ala Pro Val Ser Ala
183          850          855          860
185 Cys Asp Pro Gln Asp Asp Val Gln Pro Pro Glu Val Glu Glu Glu Glu
186 865          870          875          880
188 Glu Glu Glu Glu Glu Glu Gly Glu Ala Ala Gly Glu Asn Ile Gly Glu
189          885          890          895
191 Lys Ser Glu Ser Arg Glu Glu Lys Leu Gly Asp Ser Leu Gln Asp Leu
192          900          905          910
194 Tyr Arg Ala Leu Glu Gln Ala Ser Leu Ser Pro Leu Gly Glu His Arg
195          915          920          925
197 Ile Ser Thr Lys Met Glu Tyr Lys Leu Ser Phe Ile Lys Arg Cys Asn
198          930          935          940
200 Asp Pro Val Met Asn Glu Lys Leu His Arg Leu Arg Ile Leu Lys Ser
201 945          950          955          960
203 Thr Leu Lys Ala Arg Glu Gly Glu Val Ala Ile Ile Asp Lys Val Leu
204          965          970          975
206 Asp Asn Pro Asp Leu Thr Ser Lys Glu Phe Gln Gln Trp Lys Gln Met
207          980          985          990
209 Tyr Leu Asp Leu Phe Leu Asp Ile Cys Gln Asn Thr Thr Ser Asn Asp
210          995          1000          1005
212 Pro Leu Ser Ile Ser Ser Glu Val Asp Val Ile Thr Ser Ser Leu Ala
213          1010          1015          1020

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215 His Thr His Ser Tyr Ile Glu Thr His Val
216 1025          1030
219 <210> SEQ ID NO: 2
220 <211> LENGTH: 948
221 <212> TYPE: PRT
222 <213> ORGANISM: Homo sapiens
224 <400> SEQUENCE: 2
225 Phe Ile Gly Arg Glu Ser Glu Gln Ile Asp Asn Ala Met Ile Asn Ala
226 1          5          10          15
228 Cys Ile Asp Ser Glu Gln Glu Asn Cys Glu Phe His Met Ala Asn Met
229 - - - - - 20 - - - - - 25 - - - - - 30
231 Ala Gly Ile Asn Pro Arg Thr Glu Ile Asn Leu Glu Asn Gly Thr His
232          35          40          45
234 Ala Ala Met Ala Leu Ile Met Glu Pro Val Ser Lys Trp Ser Pro Ser
235          50          55          60
237 Gln Val Val Asp Trp Met Lys Gly Leu Asp Asp Cys Leu Gln Gln Tyr
238 65          70          75          80
240 Ile Lys Asn Phe Glu Arg Glu Lys Ile Ser Gly Asp Gln Leu Leu Arg
241          85          90          95
243 Ile Thr His Gln Glu Leu Glu Asp Leu Gly Val Ser Arg Ile Gly His
244          100         105         110
246 Gln Glu Leu Ile Leu Glu Ala Val Asp Leu Leu Cys Ala Leu Asn Tyr
247          115         120         125
249 Gly Leu Glu Thr Glu Asn Leu Lys Thr Leu Ser His Lys Leu Asn Ala
250          130         135         140
252 Ser Ala Lys Asn Leu Gln Asn Phe Ile Thr Gly Arg Arg Arg Ser Gly
253 145         150         155         160
255 His Tyr Asp Gly Arg Thr Ser Arg Lys Leu Pro Asn Asp Phe Leu Thr
256          165         170         175
258 Ser Val Val Asp Leu Ile Gly Ala Ala Lys Ser Leu Leu Ala Trp Leu
259          180         185         190
261 Asp Arg Ser Pro Phe Ala Ala Val Thr Asp Tyr Ser Val Thr Arg Asn
262          195         200         205
264 Asn Val Ile Gln Leu Cys Leu Glu Leu Thr Thr Ile Val Gln Gln Asp
265 210         215         220
267 Cys Thr Val Tyr Glu Thr Glu Asn Lys Ile Leu His Val Cys Lys Thr
268 225         230         235         240
270 Leu Ser Gly Val Cys Asp His Ile Ile Ser Leu Ser Ser Asp Pro Leu
271          245         250         255
273 Val Ser Gln Ser Ala His Leu Glu Val Ile Gln Leu Ala Asn Ile Lys
274          260         265         270
276 Pro Ser Glu Gly Leu Gly Met Tyr Ile Lys Ser Thr Tyr Asp Gly Leu
277          275         280         285
279 His Val Ile Thr Gly Thr Thr Glu Asn Ser Pro Ala Asp Arg Cys Lys
280          290         295         300
282 Lys Ile His Ala Gly Asp Glu Val Ile Gln Val Asn His Gln Thr Val
283 305         310         315         320
285 Val Gly Trp Gln Leu Lys Asn Leu Val Asn Ala Leu Arg Glu Asp Pro
286          325         330         335

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288 Ser Gly Val Ile Leu Thr Leu Lys Lys Arg Pro Gln Ser Met Leu Thr
289           340           345           350
291 Ser Ala Pro Ala Leu Leu Lys Asn Met Arg Trp Lys Pro Leu Ala Leu
292           355           360           365
294 Gln Pro Leu Ile Pro Arg Ser Pro Thr Ser Ser Val Ala Thr Pro Ser
295           370           375           380
297 Ser Thr Ile Ser Thr Pro Thr Lys Arg Asp Ser Ser Ala Leu Gln Asp
298 385           390           395           400
300 Leu Tyr Ile Pro Pro Pro Pro Ala Glu Pro Tyr Ile Pro Arg Asp Glu
301           405           410           415
303 Lys Gly Asn Leu Pro Cys Glu Asp Leu Arg Gly His Met Val Gly Lys
304           420           425           430
306 Pro Val His Lys Gly Ser Glu Ser Pro Asn Ser Phe Leu Asp Gln Glu
307           435           440           445
309 Tyr Arg Lys Arg Phe Asn Ile Val Glu Glu Asp Thr Val Leu Tyr Cys
310           450           455           460
312 Tyr Glu Tyr Glu Lys Gly Arg Ser Ser Ser Gln Gly Arg Arg Glu Ser
313 465           470           475           480
315 Thr Pro Thr Tyr Gly Lys Leu Arg Pro Ile Ser Met Pro Val Glu Tyr
316           485           490           495
318 Asn Trp Val Gly Asp Tyr Glu Asp Pro Asn Lys Met Lys Arg Asp Ser
319           500           505           510
321 Arg Arg Glu Asn Ser Leu Leu Arg Tyr Met Ser Asn Glu Lys Ile Ala
322           515           520           525
324 Gln Glu Glu Tyr Met Phe Gln Arg Asn Ser Lys Lys Asp Thr Gly Lys
325           530           535           540
327 Lys Ser Lys Lys Lys Gly Asp Lys Ser Asn Ser Pro Thr His Tyr Ser
328 545           550           555           560
330 Leu Leu Pro Ser Leu Gln Met Asp Ala Leu Arg Gln Asp Ile Met Gly
331           565           570           575
333 Thr Pro Val Pro Glu Thr Thr Leu Tyr His Thr Phe Gln Gln Ser Ser
334           580           585           590
336 Leu Gln His Lys Ser Lys Lys Lys Asn Lys Gly Pro Ile Ala Gly Lys
337           595           600           605
339 Ser Lys Arg Arg Ile Ser Cys Lys Asp Leu Gly Arg Gly Asp Cys Glu
340           610           615           620
342 Gly Trp Leu Trp Lys Lys Asp Ala Lys Ser Tyr Phe Ser Gln Lys
343 625           630           635           640
345 Trp Lys Lys Tyr Trp Phe Val Leu Lys Asp Ala Ser Leu Tyr Trp Tyr
346           645           650           655
348 Ile Asn Glu Glu Asp Glu Lys Ala Glu Gly Phe Ile Ser Leu Pro Glu
349           660           665           670
351 Phe Lys Ile Asp Arg Ala Ser Glu Cys Arg Lys Lys Tyr Ala Phe Lys
352           675           680           685
354 Ala Cys His Pro Lys Ile Lys Ser Phe Tyr Phe Ala Ala Glu His Leu
355           690           695           700
357 Asp Asp Met Asn Arg Trp Leu Asn Arg Ile Asn Met Leu Thr Ala Gly
358 705           710           715           720
360 Tyr Ala Glu Arg Glu Arg Ile Lys Gln Glu Gln Asp Tyr Trp Ser Glu

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/508,343

DATE: 03/13/2005

TIME: 11:58:41

Input Set : A:\US10508343-seq list.txt

Output Set: N:\CRF4\03132005\J508343.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date